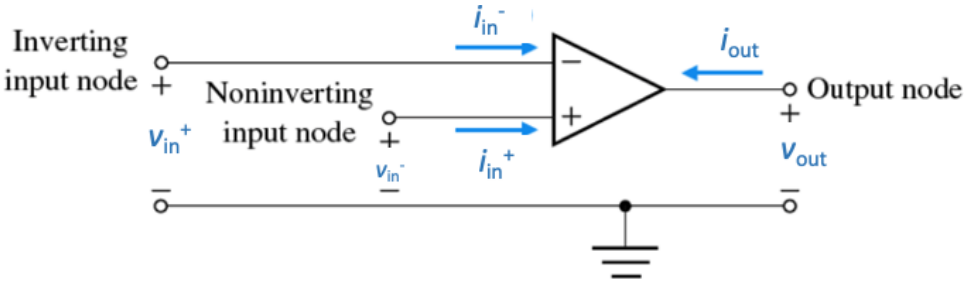
Take Test: Quiz 2.4

Test Information

Description	
Instructions	
Multiple Attempts	This test allows multiple attempts.
Force Completion	This test can be saved and resumed later.

QUESTION 1 **1 points** Saved

Consider the ideal, inverting op-amp. Which of the following statements are correct? (More than one answer may be correct.)



- [x] $v_{in}^+ = v_{in}^-$
- [x] $i_{in}^+ = 0$ and $i_{in}^- = 0$
- [ ] $v_{in}^+ = 0$ and $v_{in}^- = 0$

☐ $i_{in}^{+} = i_{in}^{-}$

QUESTION 2 1 points Saved

Which of the following describes the current-voltage relationship for a capacitor?

◉ $v(t) = \frac{1}{C}\int_0^t i(\tau)d\tau$

○ $v(t) = C\frac{di(t)}{dt}$

○ $v(t) = Ci(t)$

QUESTION 3 1 points Saved

Which of the following describes the current-voltage relationship for a resistor?

○ $v(t) = \int_0^t \frac{1}{R} i(\tau)d\tau$

◉ $v(t) = Ri(t)$

○ $v(t) = R\frac{di(t)}{}$

Question Completion Status:

QUESTION 4 1 points Saved

Which of the following describes the current-voltage relationship for an inductor?

○ $v(t) = L\int_0^t i(\tau)d\tau$

- $v(t) = Li(t)$
- $v(t) = L\frac{di(t)}{dt}$

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers | Save and Submit